

Radhia Zaghdoud

ASSISTANT PROFESSOR IN COMPUTER SCIENCE

EDUCATION Ecole Centrale Lille, Villeneuve d'Ascq, 59600 France	OBJECTIVE As an assistant professor, my primary objective is to deliver high-quality education and inspire students in the fields of Computer Science, in artificial intelligence and its applications. I am committed to fostering a dynamic learning environment that encourages critical thinking and innovation. Additionally, I seek to advance my research in optimization methods and AI applications, bridging theoretical concepts with practical implementations to address complex challenges and contribute to the scientific community.
	FUNCTIONAL SKILLS 1. Research Skills: ○ Ability to conduct thorough literature reviews. ○ Proficiency in qualitative and quantitative research methods. ○ Data analysis and interpretation. 2. Teaching and Mentoring: ○ Ability to guide and mentor students or junior researchers. ○ Creating engaging educational materials and methods. 3. Analytical Thinking: ○ Problem-solving capabilities. ○ Ability to critically evaluate information and draw conclusions. 4. Technical Skills: ○ Programming languages: Python, Java, C++, C, PLSQL, Linux, HTML, PHP, Java Script, CSS, Visual Basic, Maple, MATLAB. ○ Data analysis tools and software: MATLAB, Excel. ○ Optimization algorithms and techniques: Genetic Algorithm, Particle Swarm, NSGAI, Tabu Search, Simulated Annealing, Artificial Neural Networks, Cplex, Gurobi . 5. Communication Skills: ○ Ability to present complex ideas clearly and concisely. ○ Proficient in writing research papers, reports, and grant applications. ○ Effective verbal communication in lectures, seminars, and discussions. 6. Project Management: ○ Ability to plan and execute research projects within deadlines. ○ Budgeting and resource allocation skills.

	- Team coordination and leadership. 7. Collaboration: - Working effectively with multidisciplinary teams. - Building professional relationships and networks. - Ability to contribute to collaborative research projects. 8. Adaptability: - Flexibility to adjust to new information, technologies, or methodologies. - Openness to feedback and continuous learning.																
	LANGUAGE PROFICIENCY <table><tr><th>Language</th><th>Read</th><th>Write</th><th>Speak</th></tr><tr><td>-Arabic</td><td>Excellent</td><td>Excellent</td><td>Excellent</td></tr><tr><td>-Frensh</td><td>Excellent</td><td>Excellent</td><td>Excellent</td></tr><tr><td>-English</td><td>Very good</td><td>Very good</td><td>Very good</td></tr></table>	Language	Read	Write	Speak	-Arabic	Excellent	Excellent	Excellent	-Frensh	Excellent	Excellent	Excellent	-English	Very good	Very good	Very good
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	ACADEMIC QUALIFICATIONS <table><tr><th>Date</th><th>Academic Degree</th><th>Place of issue</th><th>Address</th></tr><tr><td>2015</td><td>PHD</td><td>Central School Lille</td><td>Lille-France</td></tr><tr><td>2008</td><td>Master</td><td>Faculty of Sciences</td><td>Jendouba-Tunisia</td></tr><tr><td>2000</td><td>Bachelor</td><td>Faculty of Science Tunis</td><td>Tunis, Tunisia</td></tr></table>	Date	Academic Degree	Place of issue	Address	2015	PHD	Central School Lille	Lille-France	2008	Master	Faculty of Sciences	Jendouba-Tunisia	2000	Bachelor	Faculty of Science Tunis	Tunis, Tunisia
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	PHD, MASTER OR FELLOWSHIP RESEARCH TITLE <table><tr><td>PhD</td><td>Hybridization of Genetic Algorithm for the problems of intelligent autonomous vehicles: Applications to infrastructure ports of middle siz</td></tr><tr><td>Master</td><td>Application of Formal Analysis of Concepts Algorithm to documents classification by a search engine</td></tr></table> PROFESSIONAL RECORD <table><tr><th>Job Rank</th><th>Place And Address of work</th><th>Date</th></tr><tr><td>Teaching assistant</td><td>Faculty of Science- Gabes- Tunisia</td><td>2000</td></tr></table>	PhD	Hybridization of Genetic Algorithm for the problems of intelligent autonomous vehicles: Applications to infrastructure ports of middle siz	Master	Application of Formal Analysis of Concepts Algorithm to documents classification by a search engine	Job Rank	Place And Address of work	Date	Teaching assistant	Faculty of Science- Gabes- Tunisia	2000						
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	Lecturer	College of Computer Science and Information Technology-Rafha-KSA	2013
	Assistant professor	College of Science	2018
	SCIENTIFIC ACHIEVEMENTS		
	Name of Investigators	Research Title	Publisher and Date of Application
	Radhia Zaghdoud, Issam Zidi, Olfa Ben Rhaïem, Salim El Khediri, Khaled Mesghouni	A Hybrid NSGA-II and Delayed Local Search Approach for Home Healthcare Scheduling and Routing Optimization	Applied Soft Computing, 01-2026
	Radhia Zaghdoud	A Health-Aware Multi-Objective Optimization Approach for Home Healthcare Scheduling and Routing	International Conference on Agents and Artificial Intelligence, 2026
	Issam Zidi, Radhia Zaghdoud, Salim El Khediri	Optimizing block size and cloud storage in blockchain technology using an NSGA-III and SVM hybrid approach	Peer-to-Peer Networking and Applications 19 (1), 5, 2026
	Marwa Amara, Olfa Benrhiem, Radhia Zhaghdoud, Shouki A. Ebad, Abdelmalek Zidouri	Feature Extraction of Handwritten Digit Recognition Using Stacked Convolutional Neural Network Ensemble	Journal of Control Engineering and Applied Informatics 27 (no 4),2025
	Olfa Ben Rhaïem, Wajdi farhat, Radhia Zaghdoud, Yahia Said	Securing IoT Environments with Blockchain-Integrated Detection Systems	Cluster Computing-The Journal of Networks Software Tools and Applications, 2025
	O Ben Rhaïem, M Amara, R Zaghdoud, L Chaari, M Metaab	Secure blockchain-based electronic toll collection system: enhancing location verification and smart contract resilience	Journal of the Chinese Institute of Engineers, 2025
	R Zaghdoud, OB Rhaïem, M Amara, K Mesghouni, S Galet	A Hybrid Genetic Algorithm Approach based on Patient Classification to Optimize	Engineering, Technology & Applied Science Research, 2024

	M Amara, R Zaghdoud, OB Rhaiem, E Althubiti	Home Health Care Scheduling and Routing Enhancing Image SEO using Deep Learning Algorithms: A Research Approach	Engineering, Technology & Applied Science Research, 2024
	OB Rhaiem, M Amara, R Zaghdoud, L Chaari, MM Alshammari	Blockchain-based System Towards Data Security Against Smart Contract Vulnerabilities: Electronic Toll Collection Context.	International Journal of Advanced Computer Science & Applications, 2024
	OB Rhaiem, M Amara, R Zaghdoud, L Chaari	Mitigating smart contract vulnerabilities in electronic toll collection using blockchain security	International Journal of Internet of Things , 2024
	Radhia Zaghdoud - Marwa Amara	Improved Particle Swarm Approach for Dynamic Automated Guided Vehicles Dispatching.	International Journal of Advanced Computer Science and Applications (IJACSA), 2022.
	Marwa Amara - Radhia Zaghdoud	Optical Character Recognition using Deep Learning: An enhanced Approach	IJCSNS International Journal of Computer Science and Network Security, 2022.
	Radhia Zaghdoud - Khaled Mesghouni - Simon Collart-Ditullel - Kamel Zidi - Khaled Ghedira	Hybrid Method for Assigning Containers to AGVs in the Dynamic Environment of Container Terminals.	IFAC-PapersOnLine, 2016
	Radhia Zaghdoud - Khaled Mesghouni - Simon Collart-Ditullel - Kamel Zidi - Khaled Ghedira	Hybrid Method for Assigning Containers to AGVs in Container Terminals.	The journal of Studies in Informatics and Control, 2015

SCIENTIFIC ACHIEVEMENTS (CONTRIBUTION TO SCIENTIFIC CONFERENCE AND SYMPOSIA)

Conference Title	Place And Date of the Conference	Extent of Contribution
13th IFAC Symposium on Control in Transportation Systems 2012	Bulagry, 2012	Optimization Problem of Assignment Containers to AIVs in a Container Terminal
International Conference on Systems Man and Cybernetics, 2013	Manchester, 2013	A Multi-objective Approach for Assignment Containers to AIVs in a Container Terminal
META'12 conference	Sousse, Tunisia 2012	A hybrid Genetic Algorithm to solve the Optimization problem of Assignment Containers to AIVs in a Container Terminal

SCIENTIFIC ACHIEVEMENTS (MEMBERSHIP AND COMMITTEES PARTICIPATING IN)

1-

IEEE AMCAI 2023, AI & ML-Big Data Analytics 2023: Special Session on Artificial Intelligence and Machine Learning applications in Big Data Analytics

TEACHING ACTIVITIES(UNDERGRADUATE)

Course	Course Number	Extent of Contribution
Introduction of Computer Science	1105101	100%
Professional Ethics	1105281	100%
Introduction to programming	1105211	100%
Digital Design System	1105222	100%

	Discrete Structures	CPCS222	100%
	Operating System	1105361	100%
	Analysis & Design of Algorithms	1105314	100%
	Object Oriented Programming	1105313	100%
	Advanced Programming	CPIT305	100%
	Data Structures	CPS204	100%
	Organizational Behavior	BUS233	100%
	Programming Languages	CPCS301	100%
	Internet Applications & web development	CPIS358	100%
	Software engineering	1105343	100%
	Database Systems	1105342	100%
	Database Administration	CPIT345	100%
	Data Mining & Warehousing	CPIT440	100%
	Artificial Intelligence	CPCS331	100%
	Systems Design Patterns	CPIS356	100%
	Intelligent Systems	CPIS363	100%
	Information Security	CPCS425	100%
	Computer Systems programming	1105462	100%
	Compiler Construction	1105463	100%
	Graduation Project	1105492	100%
	Field Training	1105483	100%
	Human Computer Interface	1105488	100%
	Local Area Network	1105472	80%
	Wide Area Network	1105371	20%

	Modeling & Simulation	1108481	100%
	Evolutionary Computation	1105483	100%
	Internet Of Things	CS472	80%
	Computer Architecture	CS211	100%
	GRADUATION PROJECT SUPERVISION (UNDERGRADUATE)		
	Project Title		Academic Year
	- Shortest Path problem with Genetic Algorithm		2016
	- A cryptography of textual document with RC4 Algorithm		2016
	- A pharmacy Management System		2016
	-An Android Application of Taxi Service for Students		2020
	- A Comprehensive Platform for Farmers and Livestock Breeders		2025
	- Online Platform for Reporting Public Malfunctions and Tracking Repairs		2025